

SHIRINYAN, K.G.; ADAMYAN, A.A.; KARAPETYAN, K.I.; KARAPETYAN, S.G.

Some characteristics of the distribution of trace elements in the recent volcanic products of Armenia. Zap.Arm.otd.Vses.min.ob_va no.2:27-56 '63. (MIRA 16:10)

ABOVYAN, S.B.; BAGDASARYAN, G.P.; KAZARYAN, G.A.; KARAPETYAN, K.T.; MALKHASYAN, E.G.; MELIKSETYAN, B.M.; MNATSAKANYAN, A.Kh.; CHIBUKHCHYAN, Z.O.; SHIRINYAN, K.G.; MELKONYAN, R.L., otv. red.; CHAKHALYAN, TS., tekhn. red.; NUNYAN, S., tekhn. red.

[Chemical composition of igneous and metamorphic rocks in the Armenian S.S.R.] Khimicheskie sostavy izverzhennykh i metamorficheskikh gornykh porod Armianskoi SSR. [By]S.B. Abovian i dr. Erevan, Izd-vo Akad. nauk Armianskoi SSR, 1962. 433 p.

(MIRA 16:2)

1. Akademiya nauk Armyanskoy SSR, Erivan. Institut geologicheskikh nauk.

(Armenia--Rocks, Igneous--Analysis)
(Armenia--Rocks, Crystalline and metamorphic--Analysis)

USSR/Cultivated Plants . Commercial. Oil-Bearing. Sugar-Bearing.

Abs Jour : Ref Zhur Biol., No 18, 1958, 82431

Author : Karapetyan, K.O.

Inst : Armenian Scientific Research Institute of Agric lture

Title : On the Problem of Pre-Planting Dipping of Cotton Seeds.

Orig Pub : Byul. nauchno-tekhn. inform. Arm. n.-i. in-t zemled.,

1957, No 2, 7-9

Abstract : After warm air warming in the sun for 8-10 days and sub-

sequent dipping in formalin, the cotton plant seeds were divided into 3 equal parts. One part was soaked in water for 24 hours, the other in 0.25% $N_{\rm na}$ solution at 18-20° and the third was the control. The best germinating ability was found in the seeds with $N_{\rm na}$ treatment. On plots planted with soaked (in water and $N_{\rm na}$) seeds, there were more plants affected with gummosis. The conclusion is

Card 1/2

- 85 --

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KARAFETYAN, K.O., Cand Agr Sci--(diss) "Effect of the pre-planting treatment of seeds on the yield of cotton." Yercvan, 1958. 14 pp

- 129-

SINONOV, N.Z. KARAPETYAN, K.S.

Plasters from diluted gypsum-clay mixtures and their volume variations. Izv.AN Arm.SSR.Ser.FMET nauk 5 no.1:71-79 152.

(MIRA 9:7)

1.Institut stroitel'nykh materialov i scoruzheniy Akademii nsuk Armyanskoy SSR.
(Plaster)

KARAPETYAN

Creep of tufaceous concrete. Isv.AN Arm. SSR. Ser. FMET nauk 5 no.4: 69-75 '52. (MLRA 9:8)

1. Institut stroitel'nykh materialov i soorusheniy AN Armyanskoy SSR. (Concrete)

KADADPTYAN K.S.

Creep of concrete under high pressure. Izv.AN Arm. SSR. Ser. FMET nauk 6 no.2:79-89 Mr-Ap '53. (MLRA 9:8)

1. Institut stroitel'nykh materialov i soorusheniy AN Armyanskoy SSR.

(Concrete)

Karapetyan, K. S.

"Experimental investigation of the creeping of light concrete on natural porous fill." Min Higher Education USSR. Yerevan Polytechnic Inst imeni K. Marks. Yerevan, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

Knizhnaya letopis' No. 21, 1956. Moscow.

Effect of form dimensions of shrinkage and creep of concrete. Izv. AN Arm. SSR. Ser. FMET nauk 9 no.1:87-100 '56. (MLRA 9:8)

1. Institut stroitel nykh materialov i vooruzheniy All Armyanskoy SSR.

(Comcrete) (Creep of materials)

124-57-2-2584D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 149 (USSR)

AUTHOR: Karapetyan, K.S.

TITLE: Experimental Investigation of the Creep of Light-weight Concrete

Based on Natural Porous Fillers (Eksperimental noye issledova-

niye polzuchesti legkogo betona na yestestvennykh poristykh

zapolnitelyakh)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree

of Candidate of Technical Sciences, presented to the Yerevansk. politekhn. in-t (Yerevan Polytechnic Institute), Yerevan, 1956

ASSOCIATION: Ye revansk. politekhn. in-t (Yerevan Polytechnic Institute),

Yerevan

1. Concrete--Creep

Card 1/1

All Arm. SSR. Ser. fiz.-mat. nauk 10 no.6:59-74 '57. (MIRA 11:2)

1. Institut matematiki i mekhaniki AN ArmSSR.
(Creep of materials) (Concrete)

KARAPRIYAN KS.

97-58-5-5/14

AUTHOR:

Simonov, M. Z., Professor, Corresponding Member of the AS, Armen-ian SSR, Matuzov, T.G., Candidate of Technical Sciences and Karapetyan, K.S. Candidate of Technical Sciences.

TITLE:

Use of Fine, High Strength Concrete for Prestressed Reinforced Concrete Constructions (Primeneniya vysokoprochnykh melkozernistykh betonov dlya predvaritel no napryazhennykh konstruktsiy.)

PERIODICAL:

Beton i Zhelezobeton, 1958, No. 5, USSR, Pp 178-182.

ABSTRACT:

Fine aggregate concrete based on quartz or pummice sands and Portland cement of 350 kg per cm² activity could produce high quality concrete suitable for prestressed constructions. Vibroground cement intensifies hardening of concrete in the initial stages and by that reduces the time during which reinforcement should be kept under tension. At the same time vibro-ground cement slightly increases shrinking. Fine aggregate concretes based on pit sand in comparison with concretes based on crushed sand have lower elasticity (35-50%) than values given in NiTU 123-55. These should be taken into account when evaluating deformations in prestressed constructions based on fine aggregates. Fine aggregate light concretes have slightly higher elasticity than light concretes based on porous sand and ballast. Shrinking of high

Card 1/3

97-58-5-5/14

Use of Fine, High Strength Concrete for Prestressed Reinforced Concrete Constructions.

quality fine aggregate concretes is many times higher than shrinking in concretes based on sand and ballast. Shrinking of fine aggregate concrete based on sand from pumice is 13% higher than shrinking in concretes based on fine aggregate and quartz sand. Calculations show that in prestressed constructions made from fine aggregate concrete where the grains do not exceed 5mm in size if no special gradation is performed and when 600kgs per m³ cement is used the loss of pretensioning due to "sluggishness" could be higher than permissable values. High strength values of concrete are obtained by the use of cement with increased activity and slow mobility of concrete mix. Under these conditions the cement requirements are between 450-500kgs per m3. Sizes of the aggregate depend on the proximity of the reinforcement bars and the thickness of the product. Careful granulation of aggregates is required. Table 1 gives values for hardening under controlled curing conditions during a three month period for concrete of various mixes and specific weights. Figure 1 illustrates graphs of the relationship of the strength of testing cubes made from fine concrete aggregate and the time. Table2 gives the values of the

Card 2/3

97-58-5-5/14

Use of Fine, High StrengthConcrete for Prestressed Reinforced Concrete Constructions.

moduli of elasticity and also strength values of test cubes of cube and prism shapes. Figure 2 illustrates graphs of the moduli of elasticity of test cubes made from fine aggregate concrete and their crushing strengths. Figure 3 is a graph of the relationship of shrinking values of testing cubes based on small aggregate concreteand the time (24 hours) Figure 4 illustrates a similar graph but taken over a period of 5 months. Figure 5 illustrates a graph of the "sluggishness" of fine aggregate concrete Table 3 gives values for the "sluggishness" of tested concretes during a period of 145 days when the concretes were subjected to central compression of 60kgs per cm2. These values were compared with those of I.I. Ulitskiy and I.A. Rusinov as published in Beton i Zhelezobeton 1956. No. 12. According to K.S. Karapetyan (Izvestiya AN Arm SSR, 1952, Vol 5, No. 4) the tuff concrete Mark 110 is used when intensity of 20kgs per cm is expected. Table 4 gives values of losses measured in set periods taking place in centrally loaded elements - 150kgs per cm - during releasing of reinforcement.

Card 3/3

1. Concrete--Applications 2. Concrete--Properties

05691

16(1) AUTHOR:

Karapetyan, K.S.

SOV/22-12-4-4/9

The Influence of Aging of Concrete on the Connection Between

TITLE:

Tensions and Deformations in Creeping

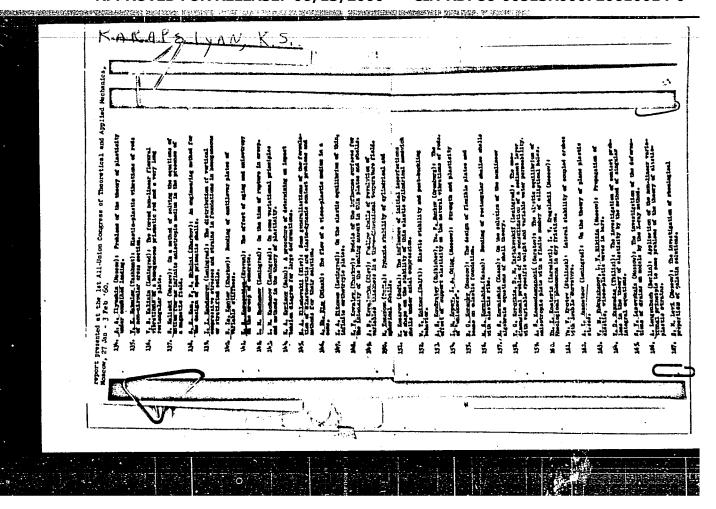
PERIODICAL:

Izvestiya Akademiii nauk Armyanskoy SSR. Seriya fiziko-matematicheskikh nauk, 1959, Vol 12, Nr 4, pp 57 - 88 (USSR)

ABSTRACT:

The author has already stated in [Ref 6] that the limits within which the tensions and deformations of a creeping concrete are proportional, essentially depend on the age of the concrete. In the present paper the author investigates this question in detail. The strength test of cylindrical test pieces (R = 5 cm, H = 60 cm) and of cubic test pieces (10 x 10 x 10 cm) led among others to the following results: Up to the relative tension 0.95 the connection between tensions and deformations under creeping can be described by two linear processes; the transition from the first to the second process depends on the age of the concrete. If V & 7 days, then the transition takes place for the relative tension 0.75, lateron for 0.6. The transition takes place by the formation of microcracks. Up to the relative tensions 0.9-0.95 the connection between tensions and deformations under creeping

Card 1/2



APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

SIMONOV, M. Z., doktor tekh. nauk, prof.; KARAPETYAN, K.S., kand. tekhn. nauk

Shrinkage and creep of lightweight concretes in prestressed construction elements. Bet. 1 shel.-bet. no.10:450-454 0 '60.

(MIRA 13:10)

(Prestressed concrete)

SIMONOV, M.Z.; KARAPETYAN, K.S.

Designing and manufacturing reinforded concrete trellis; posts for vineyards. Izv. AN Arm.SSR.Ser.tekh.nauk 13 no.3:58-61 '60.

(MIRA 14:1)

(Viticulture—Equipment and supplies)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0

KARAPETYAN, K.S.

Creep of concrete in torsion. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 15 no.6:23-37 '62. (MIRA 16:6)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR. (Creep of concrete) (Torsion)

Effect of anisotropy on the creep of concrete in compression and tension depending on the stress value. Dokl. AN Arm. SSR 39 no.1:13-20 '63. (MIRA 17:8)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR N.Kh.Arutyunyanom.

Effect of the scale factor on the creep of concrete due to compression or tension. Dokl. AN Arm. SSSR 38 no.3:135-142 '64. (MIRA 17:6)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR N.Kh.Arutyunyanom.

KARAPETYAN, K.S.; KOTIKYAN, R.A.

Effect of the scale factor on the shrinkage of concrete as dependent on the moisture content of the medium. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 17 no.2:91-103 '64.

(MIRA 17:9)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

ADDDOVED FOR DELFACE, 06/12/2000 CTA DDD96 00512D000720610014 0

KARAPETYAN, K.S.; KOTIKYAN, R.A.

Strength and deformability of concrete in the complex-stressed state. Dokl. AN Arm. SSR 39 no.4:201-206 '64. (MIRA 18:1)

1. Institut matematiki i mekhuniki AN ArmSSR. Predstavlenc chlenom-korrespondentom AN ArmSSR 5.A. Ambartsumyanom.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0

KARAPETYAN, K.S.

Effect of anisotropy on creep of concrete in compression and tension depending on the scalar factor. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk (MIRA 17:11) 17 no.4:71-90 164.

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

KARAPETYAN, K.S.; KOTIKYAN, R.A.

Fundamental equation of creep in the theory of an elastic creeping body. Tzv.AN Arm.SSR. Ser. fiz.-mat. nauk 17 no.5:47-50 (MIRA 17:12)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

biffect of anisotropy on the creep of concrete as dependent on the duration of vibration of a concrete mixture. Dokl. AN Arm. SSR 40 no.48377-203 165. (MIRA 1886)

1. Institut matematiki i mekhaniki AN Armyanskoy SSH. Submitted December 28, 1964.

KARAPETYAN, K.S.

Effect of prolonged compression on the strength and deformability of concrete. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 17 no.6:83-101 (MIRA 18:3)

1. Institut matematiki i mekhaniki AN ArmSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

Effect of anisotropy on the creep of concrete as dependent on the moisture content of the medium. Izv. AN Arm. SSR. Ser.fiz.-mat. nauk 18 no.2:58-73 65. (MIRA 18:6)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0

KARAPETYAN, K.S.

Effect of anisotropy on creep of concrete under compression as dependent on the height of the specimen. Dokl. AN Arm. SSR 40 no.5:279-283 '65.

1. Institut matematiki i mekhaniki AN ArmSSR. Submitted January 4, 1965.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

Effect of the moisture content of the medium on the creep of concrete. Izv.AN Arm.SSR.Ser.fiz.-mat.nauk 18 no.3:64-73 (MIRA 18:8)

1. Institut matematiki i mekhaniki AN ArmSSR.

Effect of anisotropy on the strength and creep of concrete as dependent on the quantity of cement used. Izv. AN Arm. SSR. Ser. fiz.-mat.nauk 18 no.5:48-64 '65.

(MIRA 18:12)

1. Institut matematiki i mekhaniki AN Armyanskoy SSR. Submitted

March 20, 1965.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

PETROSYAN, G.P., SAARYAN, R.G., KARAPETYAN, L.M.

Effect of the soda salinization of soil on the amino acid composition of grapevine leaves and shoots. Izv. AN Arm. SSR. Biol. nauki 17 no.5:19-27 My '64. (MIRA 17:9)

1. Institut pochovedeniya i agrokhimii Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Armyanskoy SSR.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0

L 10539-66 EWT(1)/T/FCS(k) SOURCE CODE: UR/0109/65/010/009/1594/1599 ACC NR: AP5022422 AUTHOR: Geruni, P. M.; Karapetyan, K. Ye.; Tribunyan, G. G. ORG: none TITLE: Remote-region field of round and rectangular apertures SOURCE: Radiotekhnika i elektronika, v. 10, no. 9, 1965, 1594-1599 TOPIC TAGS: antenna directional pattern, radio antenna, Fourier series, integration, integral equation, antenna directivity ABSTRACT: By solving radiation integrals, formulas are developed which describe the remote-region directional pattern for a rectangular aperture with an arbitrary distribution of amplitudes and phases and for a circular aperture with an axisymmetrical distribution of amplitudes and phases. The distribution laws are approximated by a Fourier series and segments of straight lines; 3-4 expansion terms suffice for most practical calculations. In some particular UDC: 621.396.671

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

Card 1/2

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ACC NR: AP5022422

cases, the distribution may be conveniently approximated by a polynomial. The formulas hold true when the phase distribution is close to uniform and has no nonmultiple- λ jumps. The formulas are intended for determining directional patterns from specified distributions of amplitudes and phases in the aperture, for synthesizing specified directional patterns, and kindred problems. "The authors wish to thank <u>I. V. Vaviloya</u> for perusal of the material and valuable comments." Orig. art. has: 2 figures and 22 formulas.

SUB CODE:09,20/ SUBM DATE: 22Jum64 / ORIG REF: 005 / OTH REF: 001

Cord 2/2 00

SAAKYAN, R.G.; KARAPETYAN, L.M.

Nuclede acids in the grapevine. Dokl. AN SSSR 146 no.1:215-216 S 162. (MIRA 15:9)

1. Predstavleno akademikom N.M. Sisakyanom. (Nucleic acids) (Grapes)



KARAPETYAN, M.

New set of booklets on industrial production and technological processes. Prom.Arm. 6 no.2:73-75 F '63. (MIRA 16:5) (Technical education)

KARAPETYN H. A.

Karapetyn, M. A. "The treatment of tumor of the bladder based on the findings of the urological department of the 1st Hospital and Roentgerological Institute, " (Report), Trudy III Zakavkazsk. s"yezda khirurgov, Yerevan, 1948 (on cover: 1949), p. 127-134

SO: U-52hO, 17 Dec. 53, (Letopis 'Shurnal 'nykh Statey, No. 25, 19h9).

KARAPETYAN, M. A.

"The Electrical Aging of Rubber-Insulated Cables." Cand Tech Sci, Leningrad Polytechnic Inst imeni M. I. Kalinin, Min Higher Education USSR, Leningrad, 1955. (KL, No 9, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

KARAPETYAN M.A.

Changes in electric characteristics of cables with rubber insulation caused by their thermal aging. Izv.AN Arm.SSR. Ser.tekh.nauk 10 no.4:69-74 '57. (MIRA 10:10)

Yerevanskiy politekhnicheskiy institut im. K.Marksa.
 (Electric cables) (Electric insulators and insulation)

SOV/144-59-12-18/21

AUTHOR: Karapetyan, M.A., Candidate of Technical Sciences, Dotsent

TITLE: An Instrument for Detecting Air Ionization in Three-Phase

Transformers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,

1959, Nr 12, pr 153-155 (USSR)

ABSTRACT: Various methods have been devised for detecting

ionization in air voids in cables and capacitors. The

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best of these instruments comprise an electronic

amplifier, a cathode ray oscillograph and a bridge whose measuring diagonal includes high-frequency filters. Ionization in voids is becoming more important in

transformers particularly with the introduction of organic film insulation of high thermal stability. The first attempts to measure the ionization initiation voltage in transformers were made with the instrument described above. The bridge circuit serves to suppress the fundamental frequency in the measuring circuit and the filter blocks the voltages which are not due to

high-frequency discharge currents in the insulation. The disadvantage of the equipment is that voltages higher than

10 kV cannot be applied and it is difficult to overcome

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sov/144-59-12-18/21

An Instrument for Detecting Air Ionization in Three-Phase Transformers

this limitation when a bridge circuit is used. A method that may be employed when the secondary winding of the transformer is connected in delta is shown diagrammatically in Fig 1. The delta winding is opened at one corner and a transformer is connected in; higher harmonics that are three-fold multiples of the basic frequency flow through the primary of this transformer. If there is no ionization in the transformer the phase emf's do not contain these harmonics. To the secondary winding of the transformer are connected a filter, an amplifier and an oscillograph. A magnitude known as the "intensity of ionization" may then be determined and is defined. optimum band pass width of the filter is discussed. If the secondary winding of the transformer is starconnected, the star point may be earthed through a resistance across which are connected the filter: amplifier and oscillograph. When ionization occurs in the transformer, high-frequency voltages appear between the star point and earth and are measured by the equipment. The intensity of ionization is again defined for this case. Similar considerations probably apply to the

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SOV/144-59-12-18/21

An Instrument for Detecting Air Ionization in Three-Phase Transformers

stator windings of alternators. There are 2 figures and 1 Soviet reference.

ASSOCIATION: Yerevanskiy politekhnicheskiy institut (Yerevan Polytechnical Institute)

SUBMITTED: January 3, 1959

Card 3/3

DADAYAN, G.A.; KARAPETYAN, M.A., red.; AVETYAN, E., tekhn. red.

[Mineral wealth of Armenia] Bogatstan nedr Armenii. Erevan, Armgosizdat, 1963. 49 p. (MIRA 16:9)

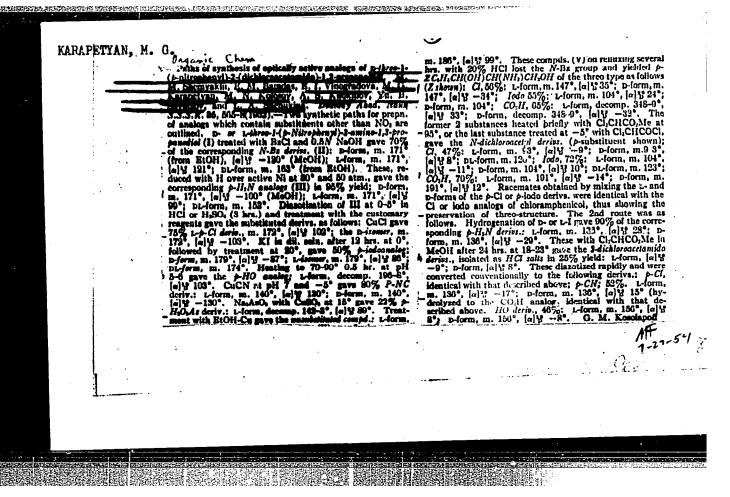
(Armenia--Mines and mineral resources)

KARAPETYAN, M.B.

Scientific and practical conference of the Azerbaijani Scientific Pharmaceutical Society. Apt. delo 11 no.2:75-77 Mr-Ap '62.

(MIRA 15:5)

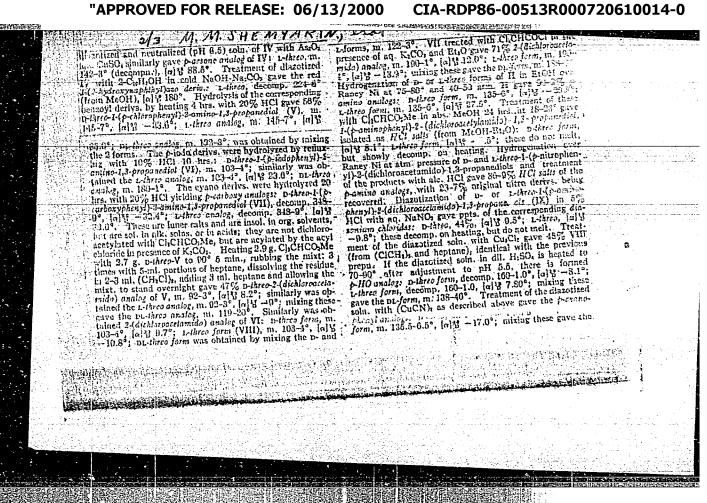
(AZERBAIJAN---PHARMACEUTICAL SOCIETIES)

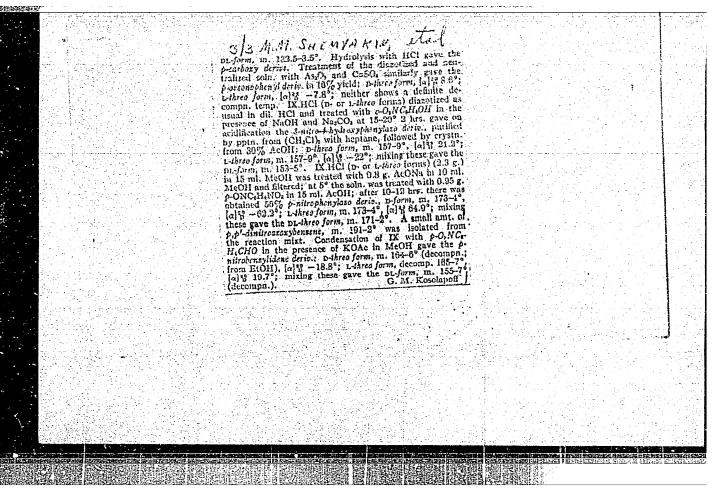


Chemistry of chloromycetin (levomycetin), II. Study of the paths of synthesis and synthesis of optically active in analogs of chloromycetin. M. M. Shemiyakki, II. M. ake analogs of chloromycetin. M. M. Shemiyakki, II. M. ake analogs of chloromycetin. M. M. Karapetyan, M. N. Kolosov, A. S. Khukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Khukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Khukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Khukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Khukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Khukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Shukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Shukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Shukhlov, Yu. B. Shvetsöv, and L. A. Kolosov, A. S. Shukhlov, Yu. B. Shvetsöv, and L. Shvetsov, A. S. Shukhlov, A. Mark S. S. S. R. 79, 601(1951); Ob. U. S. R. Shukhlov, A. Mark S. S. S. R. 79, 601(1951); Ob. C. A. 48, 646c. Two general paths of synthesis of optically conversable, both methods start with substances of known scribed, both methods of the spantage during the synthesis of chloromycetin that belong to the three scribe. Benzoyla chloromycetin the scribe. So the scribe of the scribe of the scribe. So the scribe of the scribe of

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Inst. Biol. other Chim., AMS USSR





KARAPETYAN, M. G.

"Studying Routes to the Synthesis, and the Synthesis of Levomycetin (Chloromycetin) Analogs." Cand Chem Sci, Inst of Biological and Medical Chemistry, Acad Med Sci USSR, Moscow, 1954. (RZhKhim, No 21, Nov 54)

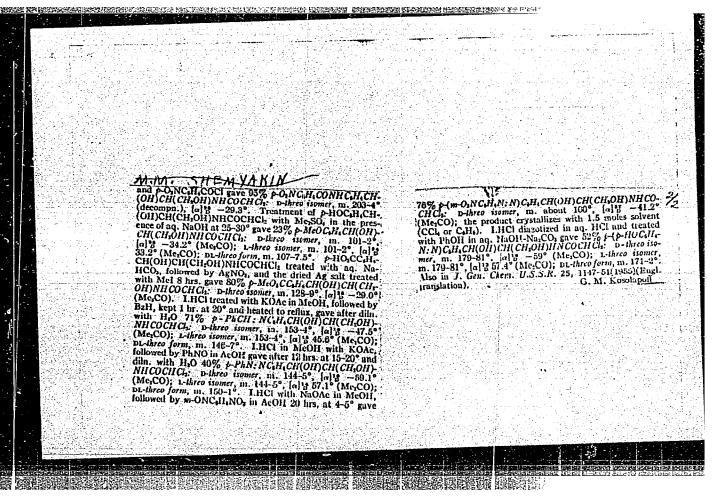
Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720610014-0

Chemistry of chloromycetin (levomycetin). VI. Syndesis on new opically active man. N. Kolsov, J. G. Herromycetin, and L. A. Skolsov, J. G. Herromycetin, J. G. H



KARMPETYAN, M.G.

USSR/Chemistry - Antibiotics

Card 1/2

Pub. 22 - 27/54

Authors

Shemyakin, M. M., Memb.Cor.Acad. of Sc., USSR; Kolosov, M. N.; Levitov, M. M.; Germanova, K. I.; Karapetyan, M. G.; Shvetsov, Yu. B.; and Bamdas, E.M. Relation between structure and antimicrosic activity of chloromycetin

Title

(levomycetin) and the mechanism of its reaction

Periodical : Dok. AN SSSR 102/5, 953-956, Jun 11, 1955

Abstract

It is shown that the high selectivity of the biological effect of chloromycetin on microbes is determined simultaneously by the following factors: 1) strong polarizing effect of the p-nitrophenyl radical, the geometrical dimensions of which are of no importance; 2) strong polarising effect of the dichloroacetyl radical, which should satisfy even the most specific geometrical requirements; and 3) defined geometrical dimensions and corresponding conformation of the aminopropanediol group. The relation between the structure and biological activity of chloromycetin is explained.

Institution

. Acad. of Med. Sc., USSR, Inst. of Biol. and Med. Chem.

Submitted

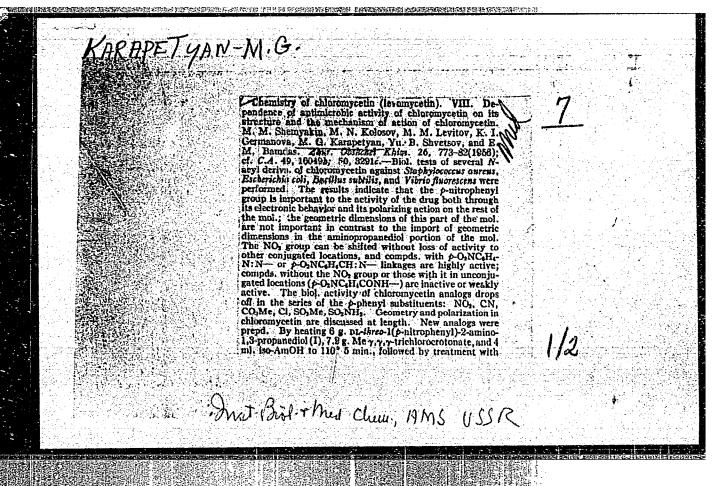
: January 27, 1955

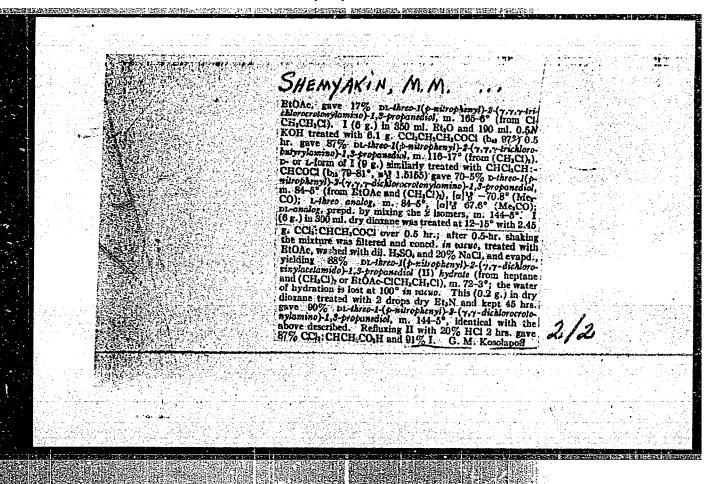
Card 2/2 Pub. 22 - 27/54

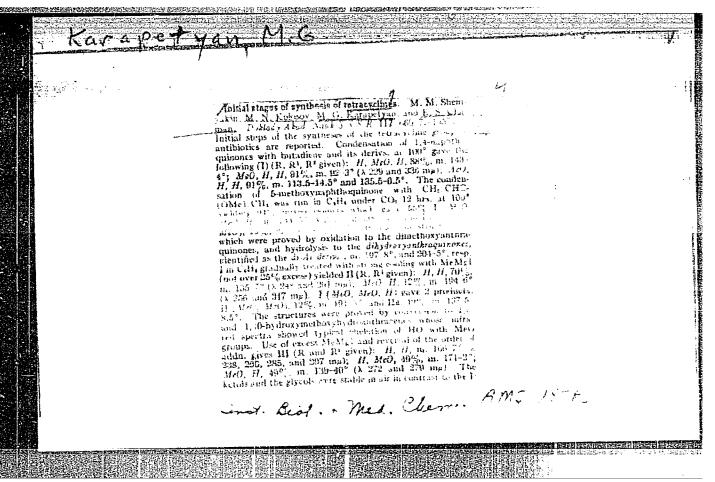
Periodical : Dok. AN SSSR 102/5, 953-956, Jun 11, 1955

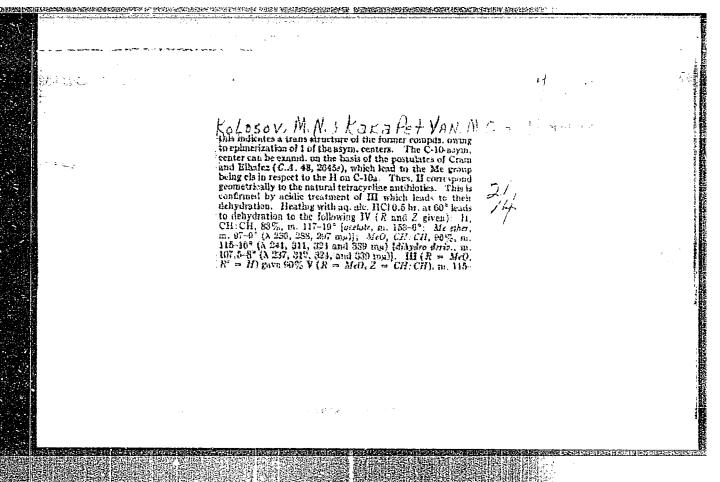
Abstract : Five references: 2 USSR and 3 USA (1858-1955). Diagrams.

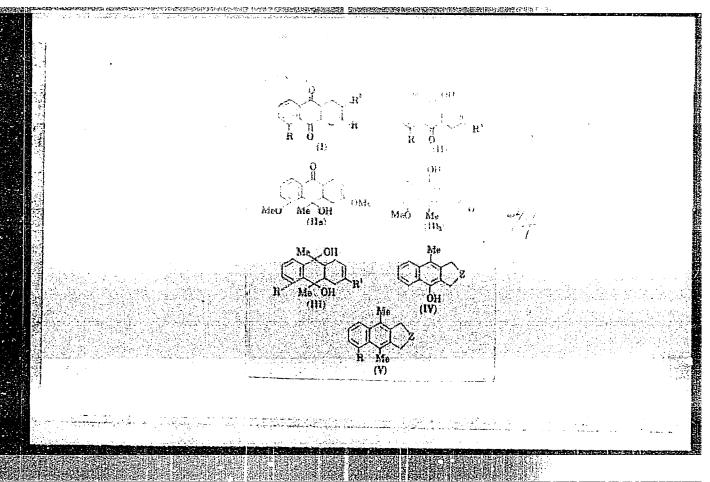
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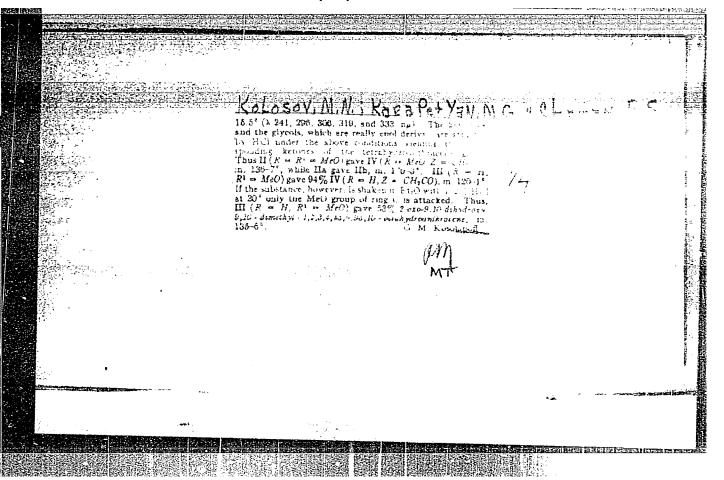












SHEMYAKIN, M.M.; SHCHUKINA, L.A.; VINOGRADOVA, Ye.I.; KOLOSOV, M.N.; VDOVINA, R.G.; <u>KARAPETYAN</u>, M.G.; RODIONOV, V.Ya.; RAVDEL', G.A.; SHVETSOV, Yu.B., BAMDAS, E.M.; CHAMAN, Ye.S.; YERMOLAYEV, K.M.; SEMEIN, Ye.P.

Research data on sarkomycin and its analogues. Part 1: Synthesis of dihydrosarkomycin and its antipode. Zhur. ob. khim. 27 no.3:742-748 Mr '57. (MIRA 10:6)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR.

(Sarkomycin)

SOV/79-28-8-15/66 AUTHORS: Shemyakin, M. M., Kolosov, M. N., Karapetyen, H. G., Rodionov, V. Ya. TITLE: Investigations on Sercomicin and Its Analogs (Issledovaniya v oblasti sarkomitsina i yego analogov) II. Synthesis of the Sarcomicin Isomer (II. Sintez izomera sarkomiteina) THIOTICAL: Zhurnel obshchey khimii, 1958, Vol. 28, Nr S, pp. 2068-2074 ABSTRACT: " In connection with a previous publication on sercomicin (Ref 1) the authors worked on synthesizing this antibiotic (Formula I) and its ethyl ester isomer (II), which differs from sarcomicin in the positions of its methylene groups. Although sarcomicin has a simple structure its synthesis is especially difficult because it is easily oxidized and has a tendency to polymerize and to form isomers. Therefore, an energetic reaction cannot be carried out, and only mild reagents and lowered reaction temperatures can be used. Since the characteristic $\beta\text{-methylene-}$ γ -keto-acid group in sarcomicin cannot stand strong treatment Card 1/3 the splitting of quarternary ammonium salts of the type

Investigations on Sarcomcin and Its Analogs. II. Synthesis of the Sarcomicin Isomer

SOV/79-28-8-15/66

-COCH(CH $_2$ \vec{n} R $_3$)- seemed to be a promising synthetic method. One can synthesize in various ways the compounds of type (III) necessary for producing sarcomcin. The simplest way to synthesize these compounds was to use the easily obtainable cyclopentanone-3-carbonic acid (IV), by introducing the dialkyl aminomethyl group into the 2 position by the Mannich reaction and then halogenalkylating the resulting tertiary amine. The synthesis of the isomer of the antibiotic sarcomicin (which is used against malignant tumors) was accomplished in this way. The starting material was cyclopentenone-3carbonic acid. This compound was condensed with formaldehyde and piperidine. The next steps were esterification and iodomethylation, and the end-product was then converted to the corresponding quarternary ammonium salt. The splitting of the salt yielded the ester of the iso-sarcomicin. There are 10 references, 2 of which are Soviet.

ASSOCIATION:

Institute biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR (Institute of Biological and Medical Chemistry of the Academy of Medical Sciences, USSR)

Card 2/3

Investigations on Carcomicin and Its Analogs. Sergy2-38-3-15,850
IV. Card 3/3

SOV/79-29-6-13/72

5 (3) AUTHORS: Shemyakin, M. M., Kolosov, M. N., Arbuzov, Yu. A., Karapetyan, M. G., Chaman, Ye. S., Onishchenko, A. A.

TITLE:

Investigations in the Field of Tetracyclines (Issledovaniya v oblasti tetratsiklinov). IV. Investigation of Different Syntheses of the Tricyclic System DCB of the Tetracyclines (IV. Izucheniye putey sinteza tritsiklicheskoy sistemy DCB tetra-

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 1831 - 1842 tsiklinov)

ABSTRACT:

The structure of the well-known tetracyclines (I) has a specific characteristic which indicates the ways and methods necessary for carrying out the complete synthesis of compounds of this type. On the basis of certain theoretical considerations the authors tried to synthesize such ketols of the hydroanthra cene series of type (III) and (IV) in which two rings had to t similar with respect to structure and spatial arrangement to the rings D and C of the tetracyclines. The third ring had to offer the structural conditions for the subsequent building-u of the ring A and for the introduction of the necessary func-

Card 1/3

CIA-RDP86-00513R000720610014-0" **APPROVED FOR RELEASE: 06/13/2000**

Investigations in the Field of Tetracyclines. IV. Investigation of Different Syntheses of the Tricyclic System DCB of the Tetracyclines SOV/79-29-6-13/72

tional groups of the ring B of the tetracyclines. The adopted method of synthesizing these compounds consisted in the condensation of the 1,4-naphthoquinones with butadiene or its derivatives and the transformation of the resultant adducts (II) into the ketols (III) which, on their part, can easily be hydrolyzed to give the oxy-diketones (IV). The first step, the diene synthesis, takes place readily by heating naphthoquinone with the diene. By condensation of the 5-methoxy-naphtho-quinone with 2-methoxy-butadiene two isomeric adducts - (II d) and (II e) in the ratio 4: 1 - are formed. The second step, the selective transformation of the Co-keto group of the adducts (II) into the tertiary methyl carbinol grouping meets with some difficulties, it was however possible to carry out the reaction by means of magnesium methyl halide. The third step of the synthesis of the compounds (IV), the hydrolysis of the enclomethoxyl up to the keto group is only possible when using dilute acids. The synthesis of the tricyclines (XV) was thus performed on the basis of naphthoquinones, in which two rings are analogous with the rings D and C of the natural tet-

Card 2/3

Investigations in the Field of Tetracyclines. IV. Investigation of Different Syntheses of the Tricyclic System DCB of the Tetracyclines

SOV/79-29-6-13/72

racyclines with respect to structure and spatial arrangement. The presence of the reactive double bond, the enol grouping or the carbonyl group in the third ring of the compounds (XV) offers further possibilities for the introduction of substituents and for the building up of the fourth ring of the tetracyclines. There are 12 references, 4 of which are Soviet.

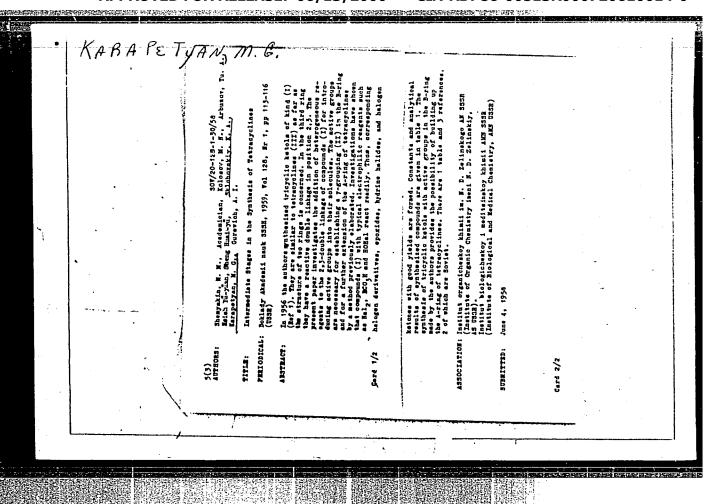
ASSOCIATION:

Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR i Institut organicheskoy khimii Akademii nauk SSSR (Institute of Biological and Medical Chemistry of the Academy of Medical Sciences, USSR, and Institute of Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

June 9, 1958

Card 3/3



KOLOSOV, M.N.; DOBRYNIN, V.N.; GURKVICH, A.I.; KARAPETYAN, M.G.

Tetracyclines. Report No.16: Absolute configuration of tetracyclines.

Inv. 4N SSSR. Otd.khim. nauk no.4:696-701 Ap '63. (MIRA 16:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR. (Tetracycline)

GUREVICH, A.I.; KARAPETYAN, M.G.; KOLOSOV, M.N.; KOROBKO, V.G.; ONOPRIYENKO, V.V.; SHEMYAKIN, M.M., akademik

建建筑的建筑设置的设计的,但是不是在大型,但是不是在大型,不是是不是不是不是不是不是,这个是不是不是,这个是是是是这一个的,但是是是是是是不是,我们就是一个人

Synthesis of hydronaphthacenes related to anhydrotetracyclines. Dokl. AN SSSR 155 no.1:125-127 Mr '64. (MIRA 17:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

GUREVICH, A.I.: KARAPETYAN, M.G.; KOLGSOV, M.N.; CNOPRIYENKO, V.V.;

SHEMYAKIN, M.M.

New method of synthesizing tetracycline ring A. Izv. AN.SSSR.

(MIRA 17:6)

Ser.khim. no. 5:945 My 164.

1. Institut khimli prirodnykh soyedineniy AN SSSR.

SHEMYAKIN, M.M.; KOLOSOV, M.N.; SE YUY-YUAN' [Hsieh Yü-yuan]; KARAPETYAN, M.G.; SHEN' KHUAY-YUY [Shen Huai-yu]; GUREVICH, A.I.

Tetracyclines. Report No.21: Synthesis of 2- and 3-substituted 10-keto-9-nydroxy-9-methyl-1,2,3,4,4a,9,9a,10-octahydroanthracenes. Izv. AN SSSR. Ser. khim. no.6:1013-1024 Je '64. (MIRA 17:11)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

SHEMYAKIN, M.M.; KOLOSOV, M.N.; KARAPETYAN, M.G.; SE YUY-YUAN' [Hsieh Yu-yuan]; ONOPRIYENKO, V.V.

Tetracyclines. Report No.22: Stereochemistry of 2-, and 3-substituted 10-keto-9-hydroxy-9-methyl-1,2,3,4,4a,9,9a,10-octahydroan-thracenes. Izv. AN SSSR. Ser. khim. no.6:1024-1035 Je '64.

(MIRA 17:11)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

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KOLOSOV, M.N.; POPRAVKO, S.A.; KOROBKO, V.G.; KARAPETYAN, M.G.; SHEMYAKIN, M.M.

Tetracyclines. Part 30: Construction of a tricyclic system DCB of tetracycline antibiotic. Zhur. ob. khim. 34 no.8:2547-2553
Ag '64. (MIRA 17:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

GUREVICH, A.I.; KARAPETYAN, M.G.; KOLOSOV, M.N.; KOROBKO, V.G.; SHEMYALIJ, M.M.

Tetracyclines. Part 42: Synthesis of 11,12%-dideoxy-4-dedimethylamino-5%,6-anhydrotetracycline. Thur. ob. khim. 35 no.4:668-673 Ap '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

NAZAROVA, Taisiya Fedorovna; KARAPETYAN, Margarita Karpovna;
ROZENTUL, Lidiya Moiseyevna; MASHKILLEYSON, A.L., red.;
MATVEYEVA, M.M., tekhn. red.

[Physical therapy in cosmetics; practical manual for physicians] Fizioterapiia v kosmetike; prakticheskoe posobie dlia vrachei. Moskva, Medgiz, 1963. 114 p.

(MIRA 16:6)

(PHYSICAL THERAPY) (COSMETICS)

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KARAPETYAN, M.K.; ROZENTUL, L.M.

Treatment of warts with liquid nitrogen. Vest. derm. i ven. 37 no.6:73-75 Je '63. (MIRA 17:6)

1. Fizioterapetvitcheskoye otdeleniye Instituta vrachebnoy kosmetiki (dir. A.F. Akhabadze) Ministerstva zdravockhraneniya RSFSR.

RUBTSOVA, L.K.; POCHAPINSKIY, V.I.; LYUOSEV, V.A.; GUBINSKAYA, Ye.I.; KARAPETYAN, M.K.; ZALEM, Z.Ya.

Experimental and clinical studies on cintments containing tetracycline. Antibiotiki 10 no.5:472-475 My 165. (MIRA 18:6)

1. Vsasoyuznyy nauchno-issledovatel'skiy institut antibictikov, Moskovskiy oblastnoy nauchno-issledovatel'skiy klinicheskiy institut imeni Vladimirskogo i Institut vrachebnoy kosmetiki, Moskva.

KARAPETYAN, N.M.; TOROSYAN, A.S.

ZP-1 protective device used in the 1000 volt circuits of mobile substations for electric tractor units. Izv.AN Arm. SSR. Ser. FMET nauk 9 no.8:55-67 156.

l. Laboratoriya elektrotekhniki AM Armyanskoy SSR. (Blectric controllers)

SOV/112-58-2-2132

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 55 (USSR)

AUTHOR: Grdzelyan, R. A., Dzhandzhugazov, N. G., Karapetyan, M. M., and Torosyan, A. S.

TITLE: A Measuring Circuit for Studying AC Corona Losses (Izmeritel'naya skhema dlya issledovaniya poter' energii na koronu peremennogo toka)

PERIODICAL: Izv. AN Arm. SSR, Ser. tekhn. n., 1957, Vol 10, Nr 1, pp 17-29

ABSTRACT: A circuit for measuring corona loss under high mountain conditions (1,100 m and 2,000 m above sea-level) for 220-kv lines is described. Power was measured by a special milliwattmeter with a maximum sensitivity of 0.1 w/m(?). Its voltage winding can be fed either from a capacitive no-loss voltage divider through a 3-stage amplifier of high imput impedance and with voltage and current feedback, or from a resistive voltage divider through a transformer having very low inductance and no-load current. Possible errors are analyzed and found to be $\pm 5\%$. A circuit alignment is also indicated.

N.N.T.

Lob of Electrical Engineering, Acad Soi Ar SSR

Card 1/1

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Froblems of wave processes in mobile electrified installations.

Problems of wave processes in mobile electrified installations.

Izv.AN Arm.SSR. Ser.tekh.nauk 10 no.4:33-42 '57. (MIRA 10:10)

1. Laboratoriya elektrotekhniki AN Armyanskoy SSR.

(Electric waves) (Electric engineering)

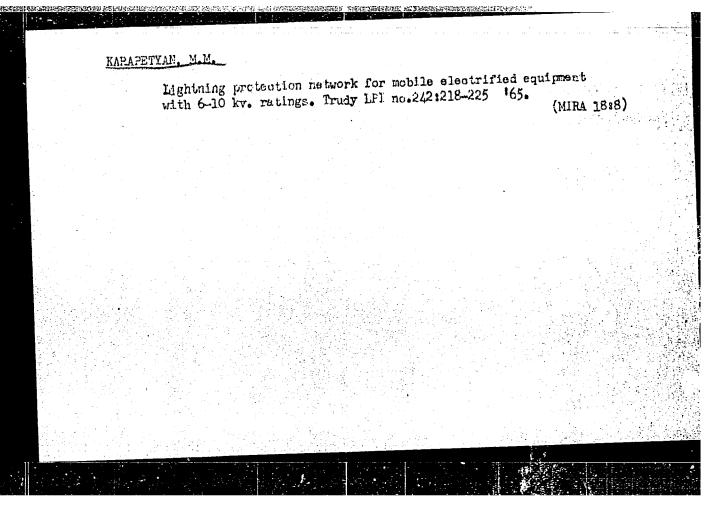
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GRDZELYAN, P.A.; KARAPETYAN, M.M.; STEPAHYAN, N.P.; TOROSYAN, A.S.

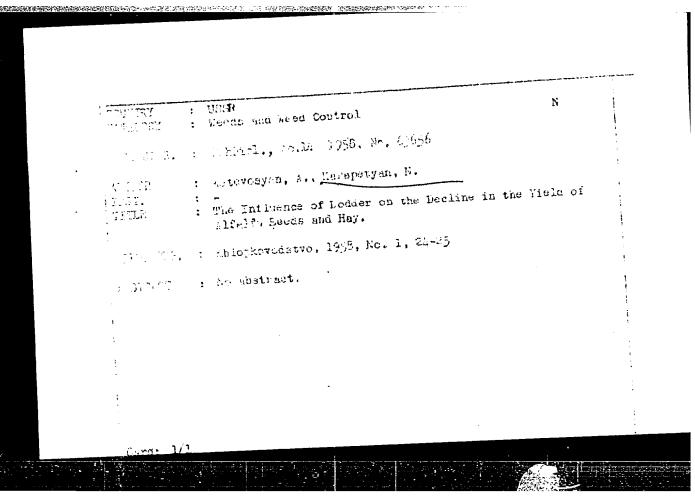
Features in calculating yearly losses of electric energy to the corons of mountain transmission lines. Izv.AN Arm.SSR. Ser.tekh.nauk 12 no.6:3-14 59. (MIRA 13:6)

is institut elektrotekhniki AN Armyanskoy SSR. (Slectric lines) (Corona (Electricity))

Atmospheric overvoltages in mobile electrified equipment. Izv. AE Arm. SSR. Ser. tekh. nauk 13 no.4:17-36 '60. (MIRA 13:11) 1. Institut elektrotekhniki AE Armyanskoy SSR. (Electric machinery) (Electric protection)



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 Grotilin, a new herbicide. Nauka i pered. op v sel'khoz. 9 no.6: 45 Je '59.						
l.Armyanskiy sel'skokhozyaystvennyy institut. (Her bicides)						

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

CHAYLAKHYAN, M.Kh.; MEGRABYAN, A.A.; KARAPETYAN, N.A.; KALADZHYAN, N.L.

Effect of growth promoting substances on tubercle formation and the growth of alfalfa plants. Dokl. AN Arm. SSR 36 no.3: (MIRA 16:10)

1. Institut mikrobiologii AN Armyanskoy SSR.

KARAPETYAN, N. A.

USSR/Biology - Plant Diseases

Nov/Dec 53

"Effect of Antagonists and Their Antibiotic Substances on the Microorganism That Causes Gummosis of Cotton Plants," R. O. Mirzabekyan and N. A. Karapetyan, Sector of Microbiol, Acad Sci USSR; Inst Microbiol, Acad Sci USSR

Agrobiol, No 6 (84), pp 55-62

Microbiol antagonists from the soil, antibiotic substances of which exert an antibacterial action on the causative factor of the gummosis Pseudomonas

276T3

malwacearum, protect cotton plants against that infection. Soviet scientists have made some study of the action of antagonists on phytopathogenic microorganisms, particularly on those that cause fungus diseases in crops. Of all antagonists that have been isolated actinomycete strains Nos 4, 5, 15, 13, and 15(H) have proved to be the most effective against Pseudomonas malwacearum. The antibiotic from No 15(h) is easily absorbed by all organs of cotton plants and protects them from initial infection with gummosis. No 15(H) antibiotic has been obtained from the Inst of Microbiol, Acad Sci USSR.

MECRABYAN, A.A.; KARAPETYAN, N.A.

Bactericidal. effect of legume seeds and sprouts on nodule bacteria.

IEV. AN Arm. SSR. Biol. i sel'khoz. nauki 11 no.2:57-62 F '58.

(MIRA 11:3)

1. Sektor mikrobiologii AN ArmSSR.
(Legumes) (Micro-organisms, Nitrogen-fixing) (Bactericides)

CHAYLAKHYAN, M.Kh.; MEGRABYAN, A.A.; KARAPETYAN, N.A.; KALADZHYAN, N.L.

Growth promoting substances in secretions of nodule-forming bacteria. Dokl. AN Arm. SSR 40 no.5:307-314 '65. (MIRA 18:7)

1. Institut mikrobiologii AN ArmSSR. 2. Chlen-korrespondent AN ArmSSR (for Chaylakhyan). Submitted September 15, 1964.

为新国际企业区域中国共享的共享。1911年,1914年,1915年,1915年,1915年,1915年,1915年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年

KARAPETYAN, N.G.; BOSHNYAKOV, I.S.; KHAYKINA, Kh.S.; AYIRYAN, L.S. Use of chloroprene-nitrile latex for the manufacture of benzene and oil-resistant gloves. Kauch. i rez. 20 no.1:42-43 Ja '61. (MIRA 14:3) (Clothing, Protective) (Rubber goods) (Chloroprene)

CIA-RDP86-00513R000720610014-0"

APPROVED FOR RELEASE: 06/13/2000

15.9102

AUTHORS:

Karapetyan, N. G., Kalantaryan, Kh. S. Bos. nyak s I S., Kalantaryan, T. K. Melikuan A. M.

TITLE:

Adiabatic polyments tion of monomins

PERIODICAL: Kauchult i rezina, 1,52, no. 3, 1 - 4

TEXT: Monomer polymerization was conducted under anichatic conditions, i. e., without heat elimination (the experiments were begun in 1949). The latter yields rubbers of varied properties in addition to other technological advantages. Properties can be regulated by an appropriate change in the polymer portion, produced at raised or reduced temperatures, or by selecting the conditions of polymerization. The required chloroprene concentrations in the emulsion, needed to conduct polymerization at various temperatures, are calculated according to the following formula:

 $Q = (t_2 - t_1) \cdot \frac{100}{x} \cdot c_1$ (1)

where t_2 and t_1 are the emulsion temperatures at the end and beginning of the process, respectively; Q - the heat of polymerization of 1 kg monomer, cal.;

X

Card 1/3

Adiabatic polymerization of monomers

\$/138/52/000/003/001/006 A051/A126

 ${f x}$ - the monomer concentration in the emulsion, ${f x};$ ${f C}_1$ - the latex specific heat. The copolymerization of chloroprene with other monomers almost completely eliminates the tendency of the rubber to crystallize under normal conditions. A study of the molecular-fractional composition of the polymers, produced by monomer polymerization under isothermal and adiabatic conditions revealed that the adiabatic chloroprene rubber was less polydispersed than the serial type: a smaller range of molecular weights, a greater portion of molecular weight parts, close to the average molecular wright, with a small decrease in the latter. It improved molecular-fractional composition of the chloroprene rubber is explained by a lower polymerization temperature at a low transformation depth, and a somewhat raised temperature at high transformation depth. Mixing was found to reduce the molecular weight of the polymer, maintaining the same nature of weight distribution of the molecular weights. In the last few years, the Yerevan' Plant of Synthetic Rubber has manufactured test batches of chloroprene rubber by the adiabatic method, yielding favourable results when employed in the cable-manufacturing industry. The adiabatic method of polymerization is also recommended for polymerization of other monomers, both in emulsions as well as solutions. There are 6 figures.

Card 2/3

X

Adiabatic polymerization of monomers			3/138/62/000/003/001/00 3/51/126		
	Yerevanskiy zavod sinteticheskogo kauchuku (Yerevan' Plart of Synthetic Rubber, im. S.	i M.	Kirova)		
			,		

PETROSYAN, V.P.; KARAPETYAN, N.G.; BOSHNYAKOV, I.S.; ZHAMKOCHAN, S.G.

Effect of the structure of polychloroprene on its dielectric properties. Izv. AN Arm. SSR. Khim. nauki 16 no.5:429-436 (MIRA 17:1)

1. Yerevanskiy gosudarstvennyy universitet i Yerevanskiy filial Vsesoyuznogo nauchno-issledovatel skogo instituta sinteticheskogo kauchuka.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610014-0"

KARAPETYAN, N.G.; TARKHANYAN, A.S.; LYUBIMDVA, A.N.

Hydration of vinylacetylene to methyl vinyl ketone by means of sulfuric acid solutions of cuprous oxide. Part 1: Solubility of vinylacetylene in sulfuric acid solutions of cuprous oxide. Tzv. AN Arm. SSR. Khim. nauki 17 no. 4:398-406 164. (MIRA 18:6)

1. Yerevanskiy filial Vsesoyuznogo nauchno-issledovatel skogo instituta ainteticheskogo kauchuka im. akad. S.V.Lebedeva.

CHUKHADZHYAN, G.A.; VOSKANYAN, S.M.; MIGRANYAN, T.Sh.; KARAPFTYAN, N.G.

Copolymers of acetaldehyde. Izv. AN Arm. SSR. Khim. nauki 17 no.4t466
(MIRA 18:6)

164.

1. Yerevanskiy filial Vsesoyuznogo nauchno-išsledovatel skogo
instituta sinteticheskogo kauchuka im. S.V. Lebedeva.

EWT(d)/EWT(m)/EWP(w)/EPF(c)/EPR/EWP(j)/T L 62135-65 UR/0303/65/000/003/0015/0018 Pc-4/Pr-4/Ps-4 RPL VM/EM/RM ACCESSION NR: AP5016943 667.633.263.3 AUTHOR: Yeliseyeva, V.1.; Karapetyan, N.G.; Boshnynkov, I.S.; Margaryan, A.S. TITLE: Emulsion copolymers of chloroprene with acrylates SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 3, 1965, 35-18 TOPIC TAGS: chloroprene, acrylic acid, methacrylic acid, latex film, methyl methacrylate, emulsion copolymer ABSTRACT: The authors worked out a method for the preparation of colloidally stable latexes based on copolymers of chloroprene with lower esters of acrylic and methacrylic acid. It was shown that latexes with the widest range of the elastic modulus of the polymer can be obtained by copolymerizing chloroprene with methyl methacrylate. The kinetics of this copolymerization were studied, the copolymerization constants of the monomers were determined, and the probable composition of the copolymer was calculated from these constants. It was found that the methyl methacrylate links of the macromolecules consist primarily of a single monomer unit, whereas the chloroprene links are made up of various quantities of monomeric units. By varying the initial ratio of chloroprene to methyl methaciylate, one can obtain latexes which yield films having Cord 1/2

